

Title (en)

FORCE RESPONSIVE INDUCTORS FOR FORCE SENSORS

Title (de)

AUF KRAFT REAGIERENDE INDUKTOREN FÜR KRAFTSENSOREN

Title (fr)

INDUCTEUR SENSIBLES À LA FORCE POUR DES CAPTEURS DE FORCE

Publication

**EP 3111180 A1 20170104 (EN)**

Application

**EP 15707245 A 20150223**

Priority

- US 201461944596 P 20140226
- US 201461944597 P 20140226
- US 2015017096 W 20150223

Abstract (en)

[origin: WO2015130610A1] In some examples, a sensor comprises a circuit including an inductor. The inductor comprises an inductor layer, a reference layer comprising at least one of an electrically conductive material or a magnetic material, and a variable layer formed between the reference layer and inductor layer. A thickness of the variable layer may be configured to change upon application of a force external to the variable layer thereby causing a change in position of the reference layer relative the inductor layer, and the change in position of the reference layer relative the inductor layer changes an inductance of the inductor. The sensor may be configured to detect the force based on the change in inductance of the inductor.

IPC 8 full level

**G01L 1/12** (2006.01); **G01L 1/14** (2006.01)

CPC (source: EP US)

**G01L 1/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2015130610A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015130610 A1 20150903**; EP 3111180 A1 20170104; US 10401238 B2 20190903; US 2018202873 A1 20180719;  
WO 2015130611 A1 20150903

DOCDB simple family (application)

**US 2015017096 W 20150223**; EP 15707245 A 20150223; US 2015017098 W 20150223; US 201515120809 A 20150223